

# SPITZ PRODUCTS



DESIGNERS AND MANUFACTURERS OF  
SPECIAL APPARATUS

LABORATORIES: OAKLAND, CALIF.

## ELECTRICITY AND LIFE

From the *Electrical Experimenter*, May, 1917.

The Construction of High Frequency Apparatus for Medical and Lecture Use.

By Frederick Finch Strong, M. D.

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In the March number of the *Electrical Experimenter* the author pointed out that high-frequency currents, when properly tuned, acted as "Vital Boosters," increasing all the functions of the body and helping it to resist and throw off disease. This vitalizing effect is not due to the mere liberation of heat in the tissues, for it is produced by the very high voltage ("Tesla") currents, as well as by the heavy amperage ("D'Arsonval") currents from which the thermic effects are usually obtained.

When the writer demonstrated the first therapeutic Tesla Coil and the first Vacuum Electrode—in 1896 before a Boston Medical Society—and suggested that the method was destined to come into general use as a vitalizing agent, he was laughed at by his colleagues; yet today there is scarcely a well equipped physician's office in this country or in Europe that does not contain some form of therapeutic high-frequency apparatus. Even the barber shops of the present time have their small "Violet Ray" outfits; and they are not by any means "fakes," for they produce real results, such as the relief of headache, neuralgia, skin diseases, etc.

Unlike other forms of electricity, these currents may be administered to patients with perfect safety. In twenty years' experience in Electro-Therapeutics the author has never known of harmful results from the use of Tesla currents applied through a vacuum electrode. The writer is a firm believer in the use of the Tesla currents in the home—if each member of the family could receive ten-minute daily treatments from a small high frequency apparatus, the general standard of health would be greatly increased. This has been demonstrated in hundreds of cases.



The author has interviewed a number of more prominent authorities on medical electricity and they agree as to the vitalizing effects resulting from the daily high frequency treatment.

## **HIGH FREQUENCY—WHAT IT IS**

High Frequency Electricity is the ordinary illuminating current transformed or nebulized, as it were, into a spray of minute particles which may be introduced into the human body without muscular contraction, thus eliminating pain and at the same time retaining the wonderful stimulating effects of the ordinary electric current. It is a flow of current of low amperage or volume, but of tremendous voltage or pressure, and exceedingly high oscillation. The voltage is increased from the ordinary illuminating pressure of 110 volts to several hundred thousand, and the frequency is increased to a million or more oscillations per second.

## **PHYSIOLOGICAL ACTION OF HIGH FREQUENCY CURRENTS**

There is no painful sensation produced by the vacuum tube when held firmly in the hand, thus establishing complete electrical contact. Ordinarily, there is a sensation of heat and in some cases perceptible vibration. Removing the tube produces a spark, which increases in sharpness as the tube is drawn away, up to the full length of spark it is capable of emitting.

## **SUMMARY OF VACUUM TUBE EFFECTS**

1. Increase blood supply to a given area.
2. Increase oxygen in the blood.
3. Increase elimination of waste products.
4. Increase bodily heat without a corresponding rise in temperature.
5. Locally germicidal.
6. Mild sparks stimulate or soothe according to length and character of application.
7. Strong sparks are caustic.
8. Sparks to the spine increase the arterial tension.

These effects, while essentially local, are not necessarily so. The current traverses the body in all directions from the point of entry, but is, of course, most intense and pronounced at the latter point.

# DISEASES THAT ARE NOW TREATED SUCCESSFULLY BY HIGH FREQUENCY ELECTRICITY

Abscesses	Enlarged Prostate	Neuritis
Anemia	Facial Neuralgia	Obesity
Asthma	Falling Hair	Pain in Abdomen
Arteriosclerosis	Female Com- plaints	and Chest
Baldness	Goitre	Paralysis
Blackheads	Gout	Piles
Brain Fag	Haemorrhoids	Pimples
Bronchitis	Hay Fever	Pyorrhea
Bunions	Infantile Paral- ysis	Rheumatism
Bruises	Insomnia	Scars
Catarrh	Lameness	Sciatica
Circulatory Dis- orders	Locomotor	Skin Diseases
Colds	Ataxia	Sore Throat and Throat Diseases
Chilblains	Lumbago	Sprains
Dandruff	Nervous Affec- tions	Toothache
Deafness and Ear Diseases	Neuralgia	Weak Eyes
Eczema		Wrinkles
		Warts and Moles

AND MANY OTHER DISEASES

## (HOME TREATMENT)

THE SPITZ VIOLET RAY HIGH FREQUENCY GENERATOR is so designed that any one may take treatments right in his or her own home for any of the above diseases, with the aid of our charts and directions, which are written by experts.

It is absolutely harmless and may be used upon the most delicate invalid or child without the least fear of injury. It is impossible to obtain a shock and there can be no possible harmful results.



Relieving Lumbago

## THE SPITZ VIOLET RAY HIGH FREQUENCY GENERATOR

In placing the SPITZ VIOLET RAY GENERATOR on the market we do so with the feeling that we have eliminated every defect found in other makes of this apparatus and we have reduced the price so that it is within the reach of the most humble and at the same time its appearance will warrant it being placed in the medicine chest with the most expensive apparatus.

After several years of experiments we have perfected the most compact, efficient and lowest priced VIOLET RAY generators on the market. Our generators will deliver a current of exceedingly high voltage and frequency, which is so necessary in electrical treatments. There is absolutely no way in which a spark or shock may be obtained from any part of the instrument except through the electrode and the length and strength of that may be controlled by a convenient knob placed on the top of the generator.

Our generators are made so that the operator does not have to carry the entire weight of the instrument in the hand when giving or taking treatments, but instead we have made our handle separate from the generator. This handle is light in weight and treatments may be given by a small child; there is absolutely no fear of a shock of disagreeable spark.

As will be seen by the illustrations our generators are very handsome in appearance. They are a most valuable addition to any home and will deliver the currents necessary for all classes of work.

## RHEUMATISM

Rheumatism of whatever kind is instantly relieved by the SPITZ GENERATOR. This may sound unreasonable to those who have suffered the tortures of rheumatism, but it is true. A thorough treatment has never been known not to give relief and in some cases every trace of the disease has disappeared in a single treatment.

In a few moments the inflammation is taken out and the pain relieved. In severe cases which have been dragging along for years more than one treatment is generally required to give the best results, but any case of rheumatism will yield to a very few treatments with the SPITZ GENERATOR.





## LUMBAGO

This is a disease which grips you in the small of the back. It is in reality rheumatism of the back. No matter how severe the pain the SPITZ GENERATOR will give relief in the very first treatment and will positively cure it in a few successive treatments.

## NEURITIS

Neuritis is an inflamed condition of the nerves, the pain simulating the pain of Rheumatism or Neuralgia. Any nerve may be involved. Brachial Neuritis is a common form. No matter what nerve is involved, the HIGH FREQUENCY current is positively curative in all cases.

## NEURALGIA

The old definition of neuralgia: "The cry of a starved nerve for blood" holds till the present day, and the HIGH FREQUENCY VIOLET RAY current will certainly supply this want. "Starved nerve" implies that the nutrition fed to the nerves through the blood is below normal. By using the VIOLET RAY current the oxygen and nutrition in the blood are increased and the nerves are nourished and restored to normal.

## NERVOUS DISEASES

The SPITZ GENERATOR does to the nerves just what the name implies. It renews the life of the nerves. By treating the spinal column with HIGH FREQUENCY VIOLET RAY current the entire sympathetic nervous system is given a cellular massage which can only be obtained by this method of treatment by electricity. The most severe cases of Insomnia, Brain Fag, Neurasthenia or Nervous Breakdown yield in a remarkably short time to this wonderful little agent which is within the reach of everyone; namely, the SPITZ GENERATOR.

## HEADACHES

Treatment with the SPITZ GENERATOR will in ninety-nine out of one hundred cases give instant relief. The Violet Ray stimulates the circulation, enables the blood to throw off the poisons which are at the root of the disturbance, and improves the general physical condition so the headache is automatically relieved.



## **GOITRE**

Excellent results have been recorded in the treatment of goitre. The HIGH FREQUENCY VIOLET RAY has a tendency to dissolve and absorb any waste tissues. Several physicians have reported to us that they have not had one solitary case of goitre which did not yield to the SPITZ GENERATOR.

## **PARALYSIS**

Paralysis is not a disease but merely a symptom of certain forms of injury which causes the complete or partial loss of motor function of the muscle fibre. Excellent results are obtained in a very few treatments by the application of HIGH FREQUENCY current, although more obstinate cases may require three or four weeks' treatment before the best results are noted.

## **WARTS AND MOLES**

No longer need you have that feeling of discomfort in the presence of others by the fact that your hands or face are covered with ugly looking warts or moles. Treatment with the SPITZ GENERATOR removes them and leaves absolutely no scar.

## **WEAK EYES**

The first treatment of VIOLET RAY HIGH FREQUENCY ELECTRICITY will leave a pleasant, delightful, restful sensation in the eyes. All cases of weakening of the Optic nerves, inflammation or eye strain are benefited in a remarkably short time so that the user of the SPITZ GENERATOR regards it as a thing of magic.

## **CONSTIPATION**

Constipation has been called the mother of diseases. Certainly it is responsible for more ills than most people suspect. Nervousness, Headache, Backache, Pimples on the Face, and a host of other ailments can be traced directly to constipation.

Treatments of the abdomen with the Violet Ray Generator stimulate the bowels to do their intended work and there is no unnatural process whatever. You will notice results very quickly when you begin to apply the SPITZ GENERATOR.

## **INDIGESTION**

Everyone knows the pangs of indigestion, the burning, aching, scalding pain we call heartburn.

By the application of the Violet Ray current the pain and discomfort are removed, the flow of gastric juices is promoted and the natural action of the stomach or bowel is stimulated and assisted.

## ECZEMA AND SKIN DISEASES

Those suffering with Eczema and Skin Diseases have long given up hope of curing themselves of their dread diseases by means of salves, ointments, etc., as they do nothing more than soothe for the time being. High Frequency Electricity is recommended by every Physician and used by Specialists as the only cure for these diseases of the skin.

## PROSTATIC DISEASES

The results following the VIOLET RAY HIGH FREQUENCY treatment of all forms of prostatic diseases are extraordinary; physicians report 90% cures in all cases with no cases in which very preceptible improvement was not recorded.

## CATARRHAL DEAFNESS

In deafness resulting from catarrh the application of HIGH FREQUENCY current will yield remarkable results when applied directly in the ear by means of our ear electrode. In one treatment the ringing in the ears, which almost without exception accompanies the deafness caused by catarrh, will stop and in a few days the hearing will be bettered to a great extent.

## POOR CIRCULATION

The primary action of High Frequency Violet Ray Electricity as generated by the SPITZ GENERATOR is to increase the circulation of the blood; when the vacuum electrodes are applied, there is soon produced a redness or hyperemia with all the resultant benefits of nutrition.

It is this building up of the circulation which is so extremely beneficial in all cases of Anemia, Chlorosis, Arteriosclerosis, etc.

Besides the increased circulation we also have by actual count an increased number of white blood corpuscles which are the most active agents in destroying all disease germs which threaten us with all forms of disease.





## SCALP AND HAIR TREATMENT

Practically every disease of the scalp, such as Dandruff, Itching Scalp, Falling Hair, Grey Hair, etc., can be traced directly to the improper circulation of the blood flowing through the scalp.

If we were to starve ourselves we could not live; consequently when the blood carrying the Oxygen and nutrition to the scalp becomes clogged or congested, the scalp does not receive its food. It is natural that it should die. This is actually what it does do and results in the above mentioned diseases.

When the VIOLET RAY is applied to the scalp through the electrode its primary action is to increase the circulation of the blood. Besides increased circulation it increases the supply of Oxygen or nutrition in the blood. Thus the parts which were slowly starving to death are built up, nourished and restored to normal.

Falling Hair, Dandruff and Itching Scalp are relieved after a very few treatments. Results are manifest right after the first treatment. The hair takes on a lifelike, glossy appearance, Dandruff and Falling Hair cease and there is no more unpleasant itching. It takes longer to restore the natural color to Grey Hair; but a little persistence will do it and hundreds of testimonials on file at our office from users in every part of the country testify as to the wonderful results obtained in treating diseases of the scalp.



## BEAUTY

The largest and best known Beauty Parlors with branches in every large city in the United States have adopted the SPITZ VIOLET RAY GENERATOR as their standard equipment.

This in itself is sufficient proof of the value of the VIOLET RAY as an aid to Beauty. Cosmetics and paints merely cover up defects of nature; the SPITZ VIOLET RAY GENERATOR stimulates nature and helps her to do her work.

The VIOLET RAY is applied through the surface electrode as a massage. When the Face, Chin, Neck and Bust are treated with the VIOLET RAY, the blood is brought to the surface, the soft muscles are gently massaged, the lines fill out, the wrinkles disappear and the bloom of HEALTH is renewed to face, which probably had been showing the results of time.

The VIOLET RAY treatment is delightfully pleasant and is the most effective method ever discovered to retain a youthful appearance and to gain Beauty. It will remove blemishes, warts, moles, crows' feet, wrinkles, pouches under the eyes, blackheads and sagging lines of the face and skin. A single treatment will convince you that it is a crime against yourself to be without an SPITZ GENERATOR when all marks and lines can be so quickly removed.

Relieves All Pain



## SCIATICA

Sciatica is in reality simply neuralgia of the Sciatic nerves. The same thing can be said of sciatica as of neuralgia. In a few treatments the irritated nerves are soothed and the pain disappears like magic.



## HOW VIOLET RAY BENEFITS

The VIOLET RAY is a thorough treatment; the irresistible, revitalizing powers of the VIOLET RAY being carried at once to every nerve cell, fibre and part of the body, even the heart is saturated. It increases the oxygen in the blood, enriching and purifying it, and giving added vitality and strength, and so eliminates the poisonous waste products to which much disease is due. It exercises without effort or the weakening waste of energy. The VIOLET RAY reaches and treats the cause of the diseases whether known or not and so strikes at the very root of the disturbance.

## OZONE

Ozone is simply a concentrated form of Oxygen or pure air. Without oxygen we cannot live. When we breathe we fill the lungs full of pure air or oxygen. This oxygen passes through the walls of the lungs at the same time passing through and purifying the blood which is flowing through the walls of the lungs and which comes there from every part of the body to be purified.

It is the lack of pure air to purify our blood that causes us to be overcome with disease. Being cooped up in an office or factory all day long is responsible for most of our diseases and particularly diseases of the respiratory organs such as Catarrh, Bronchitis, Pneumonia, Asthma, Tuberculosis and Colds.

To overcome these diseases most doctors advise a trip to the mountains, the seashore or the pine forests

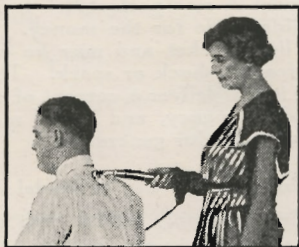


in order to obtain the desired oxone or oxygen. The SPITZ OZONE GENERATOR generates ozone or oxygen in sufficient quantities to prevent all this expense if used in your own home.

The SPITZ OZONE GENERATOR is an attachment which fits in the handle of any of our VIOLET RAY Generators and delivers Ozone in large quantities for inhalation purposes. The Ozone penetrates every cell in the lungs, purifying the blood, destroying disease germs and soothing the inflamed tissues. For Asthma, Catarrh, Hay Fever, Coughs, Colds, Bronchitis, Tuberculosis, etc., there is no better treatment known. As one of our most noted surgeons puts it: "Ozone is essential wherever pure air is essential and should be used wherever any disease is present."



Ozone Generator No. 25 - - - - \$10.00





## Model A

### HIGH FREQUENCY AND VIOLET RAY GENERATOR

To meet the demands for a Generator that would be within the reach of every one, at the same time be efficient, our Model A was perfected. It is the most wonderful machine made for the money. It attaches to any electric light socket and may be operated by a child without fear of shock or spark. The coils are designed so that it will deliver a current of exceedingly high voltage and frequency, and it will meet the demand of most everyone for general use.

#### Directions for the Use of Model A

1. Attach plug to supply circuit with current off.
2. Insert metal ferule at the end of electric in receptable A.
3. Attach hard rubber handle to other end of cord, with glass electrode held in other end of rubber handle.
4. See that small switch on top panel is on, then turn on current at supply circuit, and if Vibrator does

not vibrate, causing a spark to pass from controller rod C to A, adjust hard rubber knot B until an even spark is produced between C and A. When adjusting B see that controller rod C is about one-half inch from A. This is all that is necessary to adjust the machine; as a rule, the machines are adjusted before they leave our laboratory.

5. To strengthen the rays in the glass tube move controller rod C away from A until the desired effect is obtained.

These machines are made to operate on 110 to 120 volts only. We supply machines for other currents at special request.

Price for Model A - - - - - \$25.00

All cases are finished in black Fabrikoid Leather, lined with extra fine grade velvet; hardware and all metal parts are solid brass nickel plated.

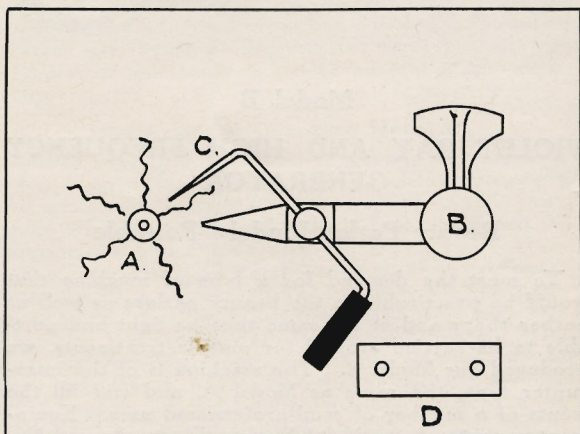


Diagram Cut showing how to operate  
Models A and B Violet Ray





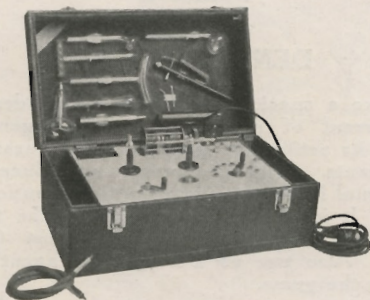
## Model B

# VIOLET RAY AND HIGH FREQUENCY GENERATOR

## Beauty Parlor Model—Portable

To meet the demand for a type of machine that would be practicable in the beauty parlors as well as barber shops and at the same time be light and portable to be carried around for outside treatments, we produced our Model B. The machine is of the interrupter type, the same as Model A, and will fill the wants of a number of semi-professional uses. Equipment consists of one No. 1 Surface Electrode, one No. 2 Comb, one No. 3 Metal Electrode, one No. 14 Fulguration Electrode, hard rubber handle and cord. Price of Model B, complete with above electrodes \$40  
**Directions for operating Model B are same as Model A**

All cases are finished in black Fabrikoid Leather, lined with extra fine grade velvet; hardware and all metal parts are solid brass, nickel plated. We will furnish cases in any style leather upon request.



## Model C

# VIOLET RAY AND HIGH FREQUENCY GENERATOR

Model C is made of the transformer type, and intended for professional use in beauty parlors, barber shops, where the constant use will not cause the coils to overheat. This model is built to hold up under constant use, being of the transformer type. It will not heat up and cause a loss of current at the electrodes.

### Directions for Operating Model C

Attach plug to 110-volt A. C. current supply, with switch A open, insert ferule at end of heavy electrode cord in B with handle and electrode in place. Lay handle with electrode down, then throw in switch A. Adjust spark gap F with knob H, pulled rod C from B about one inch until a rich heavy spark is produced. Controller D is to regulate the current going through transformer. E is to adjust the sparks from high frequency to low frequency. **Notice**—Always lay electrode handle down before making adjustments at spark gap, as an unpleasant shock, but not serious, might happen. P is pilot light to show current is on.

Model C is finished in black leather; all metal parts brass and highly nicked. This is a most wonderful machine for professional use.

Price, including complete set of electrodes, consisting of one No. 1 Surface, one No. 3 Metal, one No. 4 External Throat, one No. 2 Comb, one No. 14 Fulguration, No. 18 Condenser, Electrodes also; one hard rubber handle with heavily insulated cord - - - - \$67.50

## Model D

### DENTAL MODEL

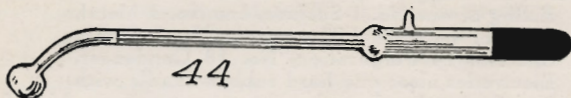
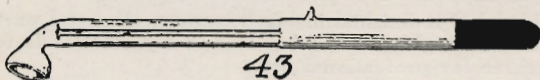
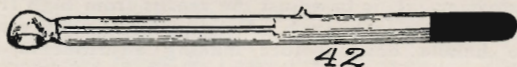
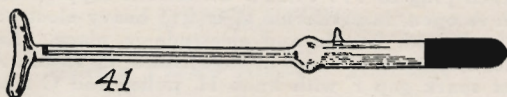
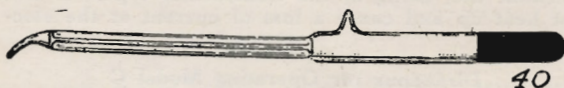
We make a special Dental Generator designed to give a current of extremely high frequency, very smooth in its action and giving no unpleasant results to the patients. High frequency as produced by our special Dental Model D, has great therapeutic value in dentistry. It is of particular value in the treatment of Abscesses, Pyorrhea, Alveolaris, Post Operative pain, etc. Also use as a diagnostic agent and for stimulating the gums.

Model D is built on the interrupter type, finished white enamel case or black Fabrokoid.

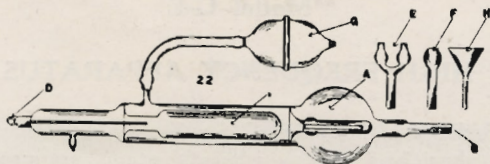
Complete with set of five insulated special electrodes. Price complete - - - \$50.00

Equipment consists of one No. 40 Cavity Electrode, one No. 41 Outer Gum, one No. 42 Cocaine, one No. 43 for treatment of Abscesses, and one No. 44 for Pyorrhea, one hard rubber handle and insulated cord.

Price of Dental Electrodes - - - \$2.00 each







## OZONE GENERATOR

Dr. Eberhart says: "Whenever an electric spark passes through the air ozone is liberated."

Speaking of ozone, Dr. Neiswanger says: "Much of the therapeutic value of electric currents applied to the body depends upon the generation of this agent. All currents produce it in a degree, but the greater the frequency and the higher the voltage the greater its production."

One of the many uses of the High Frequency current is as a blood purifier through the agency of ozone, which is generated by the electric spark or spray, and which seeks, with electricity as applied through the High Frequency glass vacuum electrode, the path of least resistance, which in the body is in the veins, as they contain the conductable carbonates and impurities, which are mostly in need of this purifying action of ozone.

In addition to this widely employed use of ozone is a method of employing it for inhalation through the use of an Ozone Generator, as illustrated in this book.

Our No. 24 all glass Ozone Generator is made in one piece. Has two compartments, one for holding the purifying oils (we furnish an ounce each of Oil of Eucalyptus and Oil of Pine Needles with the electrode), and a vacuum chamber to which is connected the wire from the High Frequency current. Connection is made at "D" by means of the little extra attachment that fits on the high frequency cord. The chamber "A" is partly filled with the neutralizing oils, and the generator grasped firmly at "I" the current passes from the Active Electrode "I" through the air space to the hand, filling the outer chamber with pure ozone. Nose piece "E" or mouth piece "F" is connected with rubber tubing to end "B." Air is gently forced through by means of bulb "G."

The Ozone Generator is not furnished with cabinet, but is an extra that may be added to equipment if desired at price quoted.

## Model G-E

### HIGH FREQUENCY APPARATUS

Model G-E is designed for hospitals, sanitariums and physicians' offices, where the constant use will not in any way affect the durability of this type of apparatus. Built on the transformer type, it is equipped with all the modality known and used by the medical science, consisting of D'Arsonval Currents, Thermo-Farodic treatments, Sinusoidal treatments, Cautery work, High Frequency, Diagnostic and Fulguration and Cataphorises.

Very handsome in appearance, being finished in beautiful baked white enamel, the entire cabinet being of steel. All parts are highly nicked; cast aluminum door prevent warping.

Model G-E has a complete equipment, consisting of 1 No. 19 Cataphoric Electrode, 1 No. 1 Surface Electrode, 2 No. 3 Metal Electrode for Sinusoidal treatments, 1 No. 4 External Throat, 1 No. 6 Internal Throat, 1 No. 8 Rectal Electrode, 1 No. 10 Vaginal Electrode, 1 No. 12 Urethral Electrode, 1 Special Fulguration Handle with Needles, 1 No. 15 Spinal Electrode, 1 No. 16 Single Eye Electrode, 1 No. 23 Nasal Electrode, 1 Set of Cautery Knives, 1 Set of Cautery Cords, 1 Cautery Handle, 1 Diagnostic Lamp complete, 1 High Frequency Cord, 1 separate long Attachment Cord, 1 Metal Disc, 1 Sponge Disc, 1 Handle for Disc, 1 Hard Rubber Electrode Handle for High Frequency treatments.

Price complete with above equipment - \$300.00

Directions—See page 30.

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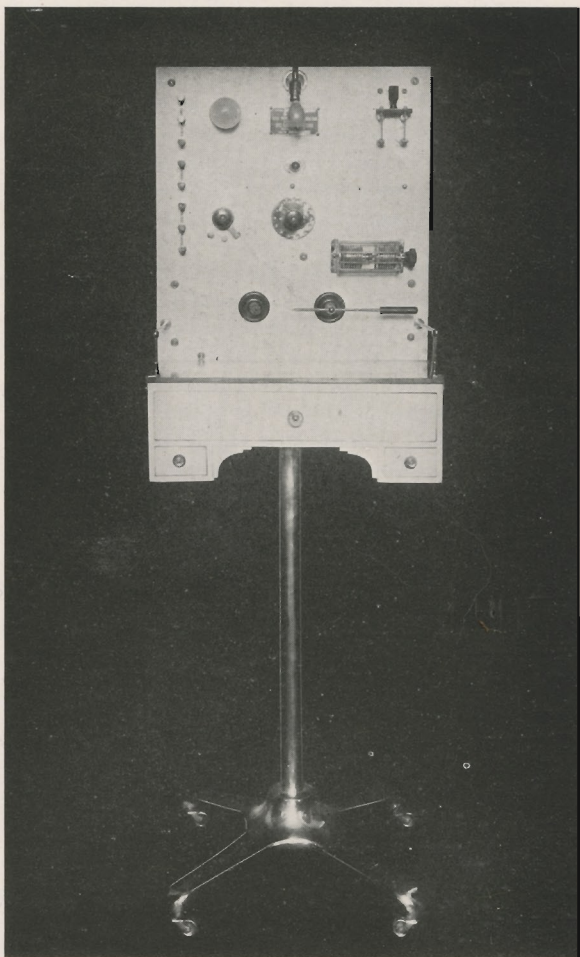
For full instructions as to operating this model see instructions for Models P or G-N. Model G-E has a separate fuse box alongside of the attachment cord for replacement fuses.

Model G-E





**Model G-N**



## Model G-N

Our Model G-N is produced to supply the wants of the modern physician's office. The Modelities are the same as Model P. The instructions can be followed in the same manner for operation as Model P.

This model is built on a nickel plated pedestal, has plate glass top, all parts are highly nickered, white enameled cabinet contains full equipment for all kinds of work. Can be moved from place to place in hospitals or sanitariums. Equipped with extra long cord to attach to current supply. Made to operate on 110 volts A. C. current. A beautiful instrument in either office or hospital. Fully guaranteed for two years. Price complete - - - - - \$175.00

Equipment consists of 7 Glass Electrodes, 1 Cautery Handle, 2 Cautery Needles, 2 Nickered Sinusoidal Handles, 1 Fulguration Handle with Needles, 1 Metal Disc, 1 Sponge Disc, 1 Handle for Disc, 1 Hard Rubber Handle for High Frequency, 1 High Tension Cord, 2 Cords for Cautery or Sinusoidal Treatments, 1 Diagnostic Lamp complete with cord.

Model G-N has the following modalities: High Frequency, D'Arsonval, Thermo-Farodic, Sinusoidal, Cautery and Diagnostic treatments. The operation and directions are the same as Models P and G-E.

See page 30.

The marble panel of this model separates from the pedestal, making it a very practical instrument for shipping. It is very easily assembled. All that is necessary is to put top panel on pedestal and clamp tight.

## Model "M"

### HIGH FREQUENCY GENERATOR AND VIOLET RAY

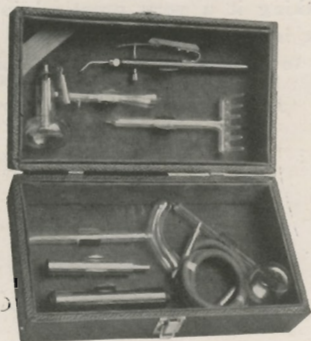
Model "M" is particularly adapted to beauty parlors or barber shops, where an apparatus is desired to be moved from place to place. This model is built on a white porcelain pedestal, has white Italian marble switch board, protected spark gap, and high and low frequency control. Being built on the transformer type, it will withstand the hard and constant use it might be subject to. All the control is under knob "D." Its operation is very simple. By following directions as for Models "P" or "G-E" for high frequency treatments, it can be readily operated.

Model "M" has the following equipment, packed in a neat leather box.

- 1 No. 1 Leather Box, Velvet Lined.
- 1 No. 1 Surface Electrode.
- 1 High Frequency Cord.
- 1 High Frequency Handle.
- 1 No. 18 Condenser Electrode.
- 1 No. 2 Comb.
- 1 No. 1 External Throat Electrode.
- 1 No. 3 Metal Electrode.
- 1 No. 20 Fulguration Electrode and Needles.
- 1 No. 16 Single Eye or Corn Electrode.

Price of Model "M" complete - - - \$85.00

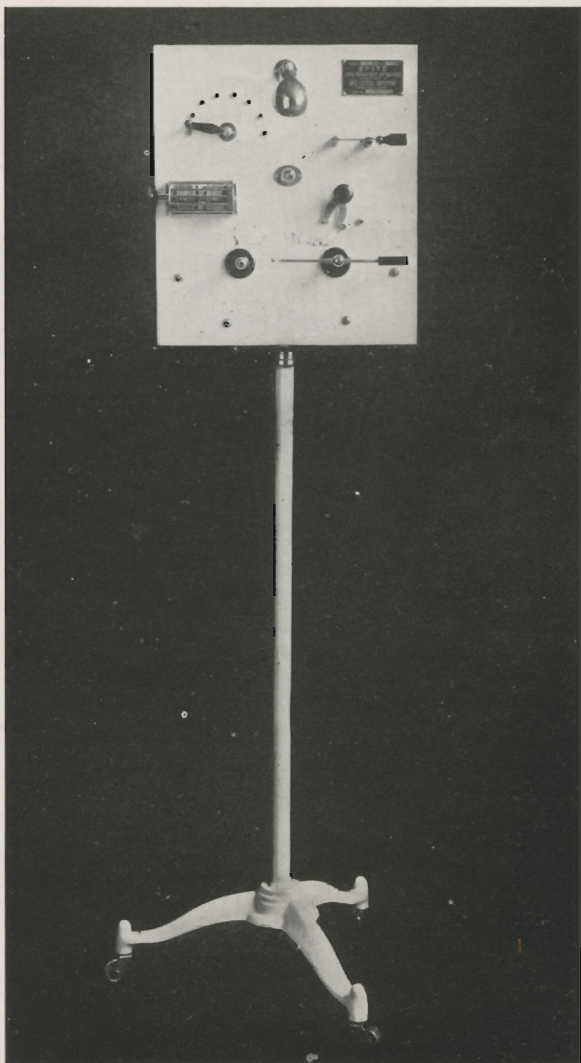
For directions see page 30.

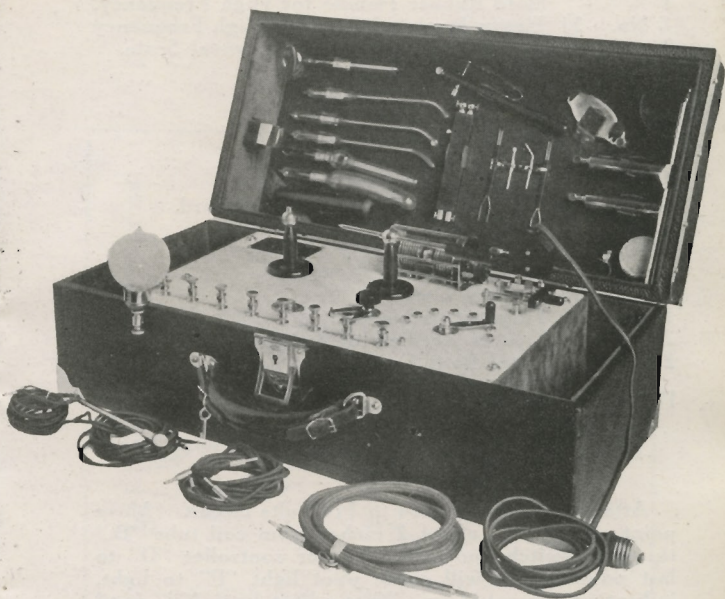


Electrode Case supplied with Model M



# Model M





## Model P

In offering our Model P to the profession we feel that we produced a wonderful apparatus that will meet all the demands of the modern office using electrical apparatus of this kind. Model P has all the modalities known to the medical science. The construction of this model makes it so that it will withstand hard and constant use, being built on the transformer type, made to operate on 110 volts A. C. current. When other voltage or currents are required, we ask you to specify the current and voltage when ordering. Model P is made to carry from one office to another. It is finished in black fabricoid leather. Italian marble panel. All metal parts are brass. Highly nickelplated. The following equipment is included in the price of this wonderful apparatus:

- 1 No. 1 Surface High Frequency Electrode.
- 1 No. 4 External Throat Frequency Electrode.
- 1 No. 6 Internal Throat Frequency Electrode.
- 1 No. 8 Rectal High Frequency Electrode.
- 1 No. 10 Vaginal High Frequency Electrode.
- 1 No. 12 Urethral High Frequency Electrode.
- 1 No. 23 Nasal High Frequency Electrode.

- 1 Hard Rubber Handle for High Frequency.
- 1 No. 51 Heavy Insulated Cord for High Frequency
- 1 Regulating Lamp for D'Arsonval Scale.
- 1 No. 52 D'Arsonval Handle.
- 2 No. 312 Sinusoidal Cords.
- 2 No. 311 Sinusoidal Handles.
- 1 No. 606 Sponge Handle.
- 1 No. 316 Spongio Disc.
- 1 No. 614 Hand Diathermy Electrode.
- 1 No. 321 Diagnostic Illuminator and Cord.
- 1 Pilot Lamp.
- 1 No. 301 Adjustable Cautery Handle.
- 2 Cautery Knives.
- 2 No. 306 Cautery Cords.
- 1 No. 20 Fulguration Handle.
- 2 Tips or Needles for Fulguration.
- 2 Metal Bath Connectors.

Price complete - - - - - \$115.00

### Directions for Operating Models "G-N," "G-E" and "P"

Attach connecting cord to 110 volts circuit. Move point of rod "C" about 2 inches from coil tube "B," throw in switch, move transformer controller "D" to last point. This will cause pilot light "P" to light, indicating current is on. Next adjust knob "H" until spark at "B" is smooth and rich. For High Frequency work move knob "E" on low or "L." This is satisfactory for ordinary High Frequency treatments. By moving knob "E" to point marked "H" it gives a High Frequency at coil tube "B." This is generally used for Fulguration work. By moving rod "C" close to "B" a milder spark is produced in the electrodes and moving "C" from "B" causes a stronger spark in electrode. Transformer control "D" will regulate amount of current for either D'Arsonval, Thermo-Faradic, Sinusoidal, Cautery or Diagnostic work.

For Diagnostic work open spark gap "F" by means of "H," until no spark is produced at "B." Insert ends of cords attached to lamp in binding posts marked "Diagnostic Lamp." "D" will regulate amount of light in lamp.

For Cautery work follow same directions as for Diagnostic, only place cord tips in binding posts marked "Cautery." Regulate heat of knife with "D."

For Sinusoidal treatments follow same directions as for Cautery or Diagnostic, only place light green cords in binding posts marked "Sinusoidal." Regulate



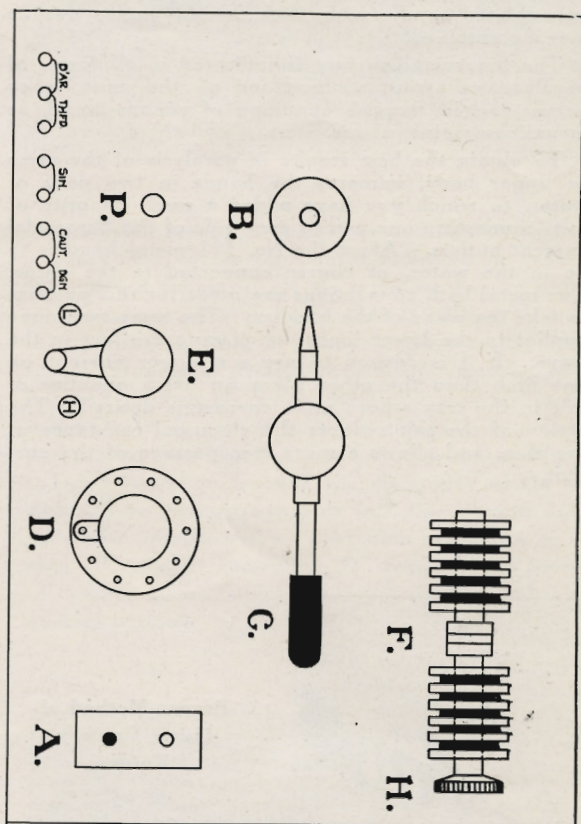
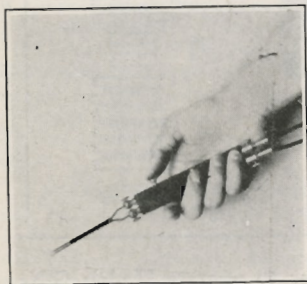


Diagram cut showing how to operate Models G-N, G-E and P. High Frequency apparatus.

amount of current with controller "D." Connect light green cords to nickel plated handles. Have patient grasp handles firmly and graduate amount of current to patient by controller "D." By moistening pad or Spongio No. 316 electrode and applying to body connected to handle, allowing patient to hold nickelplated handle with both hands, better results may be obtained.

The Sinusoidal current is indicated in all forms of paralysis or atrophied condition of the muscles or nerves and in sluggish condition of venous blood, as in varicose veins, ulcers, etc.

To obtain the best results in paralysis of the arms or upper body, immerse the hands in two pans of water, to which you have added a small quantity of salt, connecting one pan to each side of the Sinusoidal current outlets. Allow the No. 311 metal handles to lie in the water, of course connected to the cords. Our metal bath connections are made for this purpose to take the place of the handles. The same technique applies to the lower limbs, by placing the feet in the trays. If it is desired to use a stronger current on one limb than the other place an extra quantity of salt in the tray where most current is desired. The action of the salt reduces the electrical resistance of the skin, and allows a more free passage of the current.



**Proper Method of  
Using Cautery  
Knives**

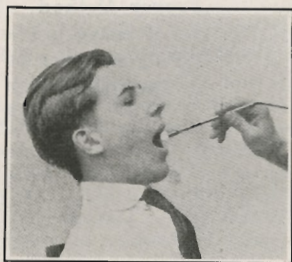
**Cautery**



### **Senusoidal Treatment with Pan and Water Method**

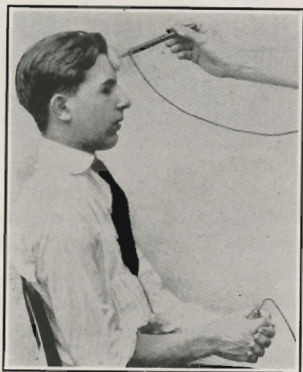
Senusoidal current is **Contra indicated** in cases of **High Blood Pressure**. If your patient has an abnormal blood pressure always **reduce same first** by treating thoroughly with D'Arsonval. Periodically interrupted Senusoidal current may be obtained by opening and closing the knife switch to slow or fast as desirable, or if you wish, we can supply you with a mechanical interrupter. The price is reasonable.

Don't forget to moisten the electrodes where possible before giving treatments with this current, to insure best results and to overcome resistance of the skin. Remember controller "D" regulates the amount of current given patient according to the numbers on control buttons.

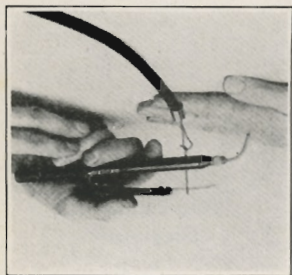


**Application of  
Diagnostic  
Lamp**





**Application of Senusoidal with Spongio Disc**



**Proper Method  
of using  
Fulguration  
Electrode**

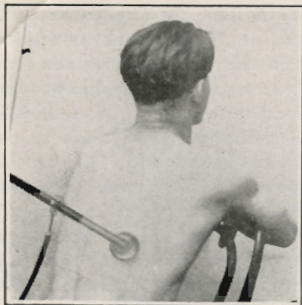
## FULGURATION

This wonderful modality is best considered as being in two distinct forms—the long cool spark as applied from the Tesla coil "B" and the short hot sparks from the D'Arsonval posts. For ordinary treatment connect the heavy insulated cord to Fulguration handle, insert one end in coil "B," move rod "C" close to coil "B," say about one-half inch. Place knob "E" so that button marked "H" is covered. This gives a higher frequency than button "L." The higher frequency is best for Fulguration work. Knob "H" on spark gap will with a little adjustment produce a rich smooth spark at points of Fulguration needle. It is best to have spark gaps very close for this work. By moving rod "C" from "B" the spark becomes stronger.

It is advisable to use an anesthetic locally before applying the Fulguration electrode, as the spark has a hot caustic effect, and really sears its way into the tissues, making the treatment too painful for ordinary cases, unless cocaine or some other agent is employed first.

Apply electrode needle direct to part to be treated, and make contact with spring lever on Fulguration handle. To alleviate the resulting pain as much as possible, where sensitive tissues are being encountered, and where no local anesthetic is being used, bring the point to the part and quickly remove it beyond sparking distance; all this with spring lever pressed down. Several short applications like this of two or three seconds at the most generally suffice to obtain the desired results with this method. When shorter and hotter sparks are desired set the patient on the chair pad and instead of connecting the other wire to the handle, fasten it to the Fulguration electrode. One wire is connected from the D'Arsonval post to the chair pad, and the other from the D'Arsonval post to the Fulguration handle. We take pleasure in referring you to Dr. Eberhart's books on this subject.

Fulguration is the best known method of applying the High Frequency current for the removal of Warts, Moles, Nevi and similar growths. When used in connection with this portable machine. Most excellent results can be obtained in the removal of Neoplasms of the Urinary Bladder, and for the destruction of cancerous masses. Our No. 20 Electrode Handle is supplied with suitable needles for all surface work and specially prepared rubber covered steel wire for introduction through Urethral Cathetries or Cystoscopes will be furnished if desired.



Application  
of High  
Frequency

## HIGH FREQUENCY

For High Frequency currents use glass electrodes in hard rubber handle by connecting one end of heavy high frequency cord to handle and the other end insert in coil "B." First move rod "C" about two inches from coil "B," then with current on move controller knob "D" to last or No. 7 point, then adjust knob "H" until a rich heavy spark is produced between point of "C" and coil "D," pull up 110 volt switch on panel. All this should be done before high frequency cord is inserted in coil "B." Next insert one end of cord in "B," after the handle and glass electrode are in place. To make sparks milder move rod "C" closer to "B," or away to make spark stronger. Don't open spark gap very wide, as this makes a coarse strong spark for high frequency work.

Don't allow patient to touch any metal part of machine, or come in contact with any metal parts when giving treatments.

Don't touch the supply cord from 110 volt circuit or any metal part of machine. When you have the active electrode in your hand always lay it down before coming in contact with any metal sockets or any other fixtures.

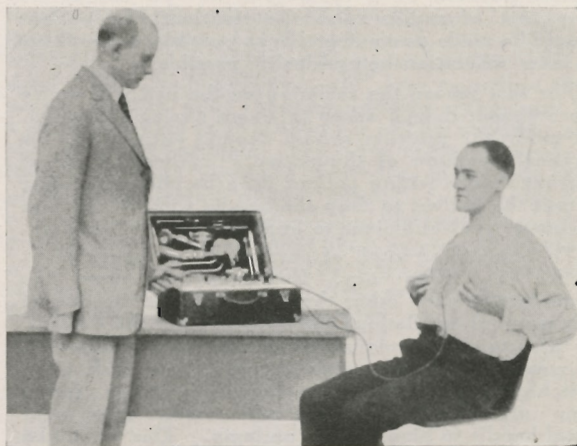
Don't remove electrode from patient before placing your own hand on electrode to avoid the sparks jumping to the skin and causing a shock or when holding hard rubber handle containing active electrode. Always pull switch before removing electrode from patient. Don't apply electrode to sensitive tissue before trying its strength on your hand.



Don't use a liniment or tonic containing over 35 per cent alcohol while treating. Don't allow the electrode to rest in one spot for more than a few seconds at a time. Keep it moving.

Don't tamper or try to fix your machine. We fully protect and will repair it free of charge, provided the cause is due to defective parts.

### Treating Tuberculosis of the Lungs with D'Arsonval Currents



## D'ARSONVAL

For D'Arsonval treatments first adjust spark gap by means of knob "H," so that a smooth rich spark is produced between "B" and "C." When "C" is about one inch from "B," pull up switch at 110 volt circuit. Place the two cords in binding posts marked D'Arsonval, then fasten one end of one cord to auto pad and the other cord to long nickel plated handle. Have patient sit back firmly against the pad, and also hold firmly to the nickel handle with both hands.

When giving the D'Arsonval treatment with chair pad. The long nickel handle should be grasped firmly with both hands, and care should be taken that the cord does not touch or hang near any part of the body at any point. It is well to have the hands supported away from the body, so that there will be no danger of sparks passing across. These sparks will not only prove annoying, but are apt to burn the patient as well. The chair pad can be used in the reclining position on a table as well. To obtain the very best of results from the treatment, the patient should be made as comfortable as possible, a condition of utter relaxation being ideal if possible.

For that reason the reclining on the pad will derive more benefit than if asked to sit up during treatment. Certainly the position should depend entirely on the physical condition of the patient. Always shut off current before letting patient drop handle, and never permit the patient to drop the handle with the current on, as a spark sufficient to burn the skin will result.

To regulate strength of current, adjust spark point as for High Frequency. Remember the closer the points are to each other the higher will be the rate of frequency or oscillations and the smoother the current. To ascertain the amount of current being delivered, by means of the color scale shown in this book, open switch, so that machine is out of operation, insert lamp into first binding post and connect cord from metal handle to binding post on lamp. This will make the lamp in series with patient. Now seat the patient as before, having the patient hold metal electrode with both hands. You will find the lamp glow to different shades of color, depending on the position of controller knob "D," and the adjustment of knob "H." The more current passing the brighter the shade. While the current is passing through the lamp (in series with the patient) hold the color scale close to the lamp and match to one of the numerous shades. As, for example, should you desire 500 mill.

amperes, and the lamp color matches shade marked 450 or perhaps 525, either increase or decrease the amount of discharge by means of spark points. To increase open, to decrease bring points closer together.

Regulation of this current can also be obtained with controller knob "D."

The lamp should be used for testing purpose only, and when the desired setting is obtained should be removed from the circuit and connection should be made as before, that is, direct from the machine to the handle. The resistance of this lamp cuts down the current to the patient almost twenty-five per cent and the operator should figure accordingly.

### **Reducing High Blood Pressure**

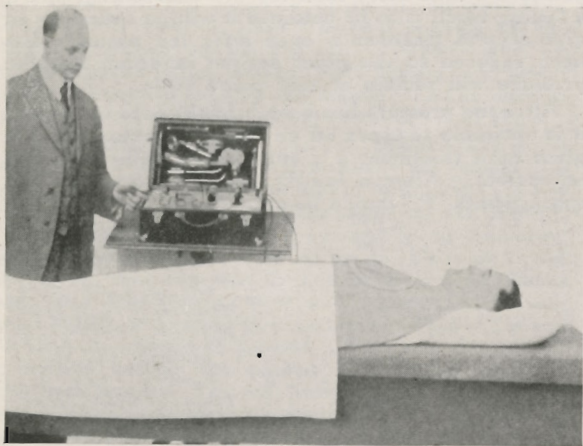
The D'Arsonval current as delivered through the chair pad mentioned above, will reduce arterial pressure. It is necessary to give a number of treatments before any lasting results can be obtained, as, although the Sphygmoneonometric reading before and after treatment, will show conclusively that (in most cases at least) the pressure has been lowered, this pressure will again come back to the high point within a very short time. Each treatment will serve to reduce the pressure a little more than the previous sitting, and if a lasting result is to be obtained it will be necessary to give several treatments, even after the pressure has been reduced to the point desired in order that the pressure will remain at that point.

After the pressure has been brought back to normal it is advisable to taper off on the treatments. Thus it gives each treatment a slightly lower milli amperage of current. After a few D'Arsonval treatments the spark points "P" should be cleaned.



### To Clean Spark Points

Generally any irregularity in the discharge of High Frequency or D'Arsonval currents can be traced to spark points, as after using the machine for heavy discharge for any considerable length of time these spark points may become carbonized, and if this condition is ignored, pitting of the silver itself will result. To clean these points wet with saliva the corner of a card and slide between points, until both surfaces are thoroughly moistened, then turn off the moisture with the current by closing switch "A." **Have no electrode in circuit when cleaning points. Do not have patient connected with auto pad with lamp in circuit.** Repeat the cleaning process two or three times and you will find a considerable quantity of carbon adhering to the card. You will note the very fine control of High Frequency current after cleaning in this manner. Should your points become exceedingly rough at any time, you may have to resort to very fine sandpaper. Do not use this method more often than is absolutely necessary. A slight film of high grade sperm oil spread over the points after cleaning helps to keep down the carbon. Be sure to open switch "A" after using the machine.



**Treating Pneumonia with Modified Diathermy  
Current**

## **Diathermy or Thermo-Faradic Treatments**

### **Direct Diathermy**

The real true type of Diathermy discharge is of fairly low voltage, high milli amperage and exceedingly high frequency or rate of oscillations, and our apparatus will deliver this valued modality as well as any machine on the market, regardless of size or price. Make connections the same as for D'Arsonval, only connect cord to binding posts marked "Thermo-Faradic." To one cord connect the long nickel plated handle and to the other cord connect our No. 614 special hand electrode furnished with the equipment. When the handle and electrode are placed in contact with the body at different places the Diathermic current passes through the body from one to the other in direct line. Thus the course of the current is regulated through the body by the position of the handle and electrode.

Care should be taken to place the handle and electrode in contact with the body before turning on current, and current must be turned off before removing electrodes.

### **Modified Diathermy**

Indirect modified Diathermic current is obtained by using the auto condensation chair pad as one of the electrodes. The patient is placed on the pad, usually in an upright position, the same manner as for D'Arsonval treatments. The patient really forms one circuit of a condenser. The other connection is made either to the small round Diathermy disc, or the special No. 614 hand Diathermic Electrode furnished.

If the round disc Diathermy is used it is placed directly over and in positive contact with the affected area, or a splendid heating effect can be obtained indirectly, and with absolutely no electrical sensation to the patient, by making connection to the long metal, holding same tightly and placing the closed hands over the area. When using the round metal disc it is advisable at first to reduce the natural electrical resistance of the skin itself by moistening with salt water.

To become accustomed to this treatment it is best to try some on yourself. Take position on the pad, make connection to No. 614 hand electrode, which, owing to its construction, will remain in positive contact with the palm of the hand and allow the fingers to remain free, and have some other party start the current through the machine. Start with a mild current, having controller knob "D" or Point No. 1, and spark points nearly closed, until a slight warmth

is felt at the wrist and hand. Raise the hand to the forehead, place the fingers over the bridge of the nose or between the eyes and note the smooth, intense heating effect. Place the fingers back on the forehead, massage gently back and forth, and the first trial on your part will convince you that any congestion from most any cause whatever must yield to that type of treatment.

The same technique may be followed on the neck, the abdomen, chest, in fact, any part where it is desirable to generate heat. It is advisable, although not necessary, to remove the clothing from the part under treatment. A simple and very effective method of applying this modified Diathermy is a general tonic to the limbs, to place the hands or feet in a tray or other container filled with water to which a small amount of salt has been added, and connect the fluid to the machine in the same manner as you would the handle or Diathermy disc, as shown in illustration for Sinusoidal treatments.

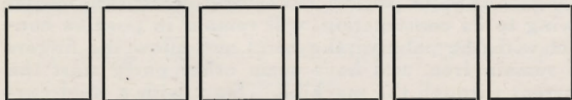
### CAUTION

Always shut off the current before letting patient drop the handle and never permit the patient to drop the handle with the current on, as a spark sufficient to burn the skin will result.

### DIRECTIONS FOR USE OF COLOR SCALE

To obtain amount of current given patient, place lamp in front binding post, marked D'Arsonval. Connect cord to binding post in bottom of lamp, so that lamp is in series with patient and machine. Match the above color to lamp when lit. The reading will be in milli amperes. When lamp is removed and cord connected to machine, the current to patient increases about twenty-five per cent. See directions for D'Arsonval treatments.

### COLOR SCALE FOR D'ARSONVAL



800MA 700MA 600MA 525MA 450MA 350MA



## VACUUM ELECTRODES

We manufacture a line of Electrodes at all times.

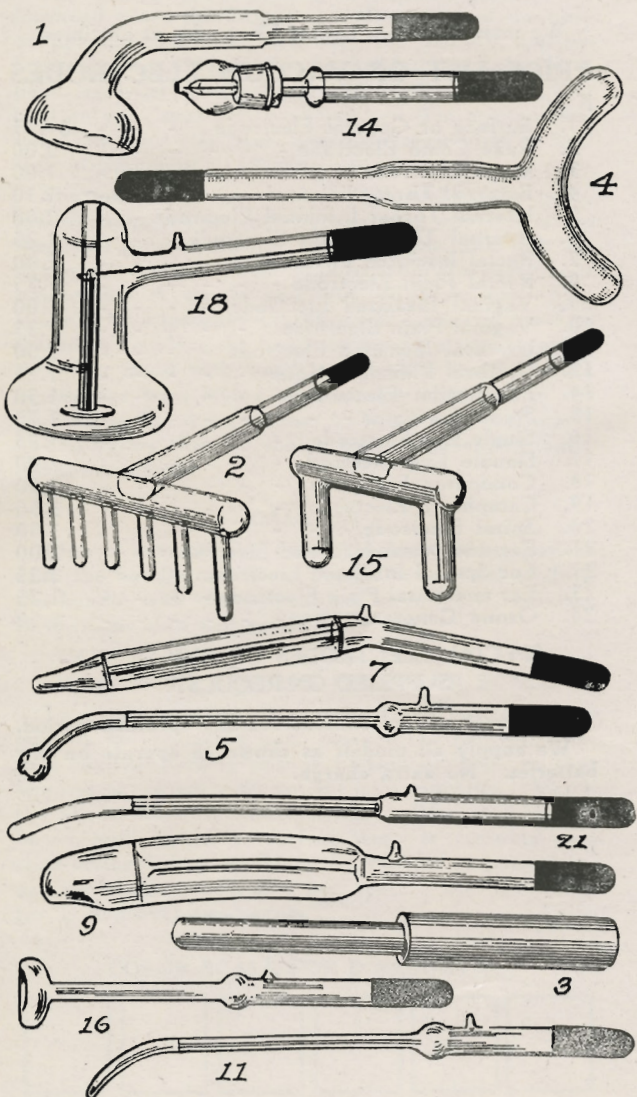
### PRICE LIST OF VACUUM ELECTRODES

No.		
1.	Surface or General Electrode - - -	\$ .75
2.	Rake Comb Electrode - - - -- -	2.00
3.	Metal Electrode - - - - -	1.00
4.	External Throat Electrode - - - -	1.50
5.	Internal Throat Insulated Electrode - -	2.00
6.	Internal Throat Plain Electrode - - -	1.25
7.	Rectal Insulated Electrode - - - -	2.00
8.	Rectal Plain Electrode - - - - -	1.25
9.	Vaginal Insulated Electrode - - - -	2.00
10.	Vaginal Plain Electrode - - - - -	1.25
11.	Urethral Insulated Electrode - - - -	2.00
12.	Urethral Plain Electrode - - - - -	1.25
14.	Fulguration Electrode - - - - -	1.50
15.	Spinal Electrode - - - - -	1.75
16.	Single Eye Electrode - - - - -	1.25
17.	Double Eye Electrode - - - - -	2.00
18.	Condenser Electrode - - - - -	3.50
19.	Cataphoric Electrode - - - - -	3.50
20.	Spiral Electrode - - - - -	3.50
21.	Ear and Nasal Insulated Electrode - -	2.00
22.	Ear Special Insulated Electrode - - -	2.25
23.	Ear and Nasal Plain Electrode - - - -	1.25
24.	Ozone Generator - - - - -	8.50

SPECIAL ELECTRODES OF ANY DESIGN  
SUPPLIED ON REQUEST.

Electrodes not guaranteed for any specified period.

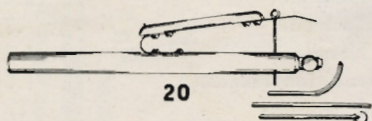
We supply all models as shown to operate on dry  
batteries. No extra charge.



## PRICE OF ACCESSORIES

	Price
High Frequency Cord, 4 ft. long - - -	\$1.25
High Frequency Cord, 5 ft. long - - -	1.50
High Frequency Cord, 6 ft. long - - -	1.75
High Frequency Cord, 7 ft. long - - -	2.00
Fulguration Electrode Handle with 3 tips -	3.00
Fulguration Wire, Rubber Covered, per ft. -	.25
Ozone Generator, complete - - - -	10.00
No. 316 Felt Pad Electrode - - - -	.75
No. 316 Felt Pad Handle - - - -	1.25
No. 52 Auto Condensation Handle - - -	1.00
No. 410 Chair Pad - - - -	
No. 311 Metal Treatment Handles, per pair -	1.50
No. 312 Treatment Cords, per pair - - -	.75
No. 322 Diagnostic Lamp - - - -	.75
No. 321 Handle and Cord - - - -	1.50
Complete - - - -	2.00
No. 301 Cautery Handle - - - -	
No. 306 Cautery Cords - - - -	1.50
No. 609 Diathermy Disc - - - -	1.00
No. 606 Rubber Handle - - - -	1.25
No. 614 Diathermy Hand Electrode - - -	1.50



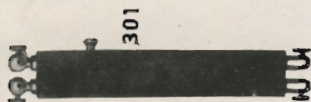


No. 20 Fulguration Electrode

Described on page 28



No 51 H F Cord



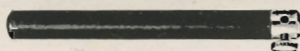
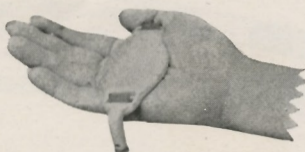
No. 301 Cautery Handle



No 306 Cautery Cords



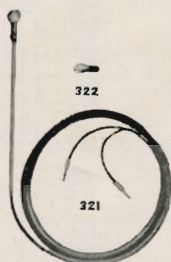
No. 609  
3" Diathermy Disc



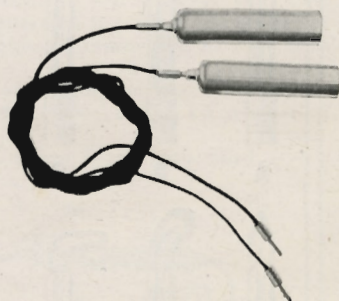
No. 606R Rubber Handle



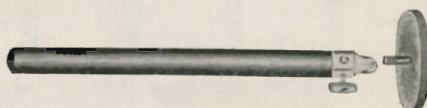
No. 614 Diathermy Hand Electrode



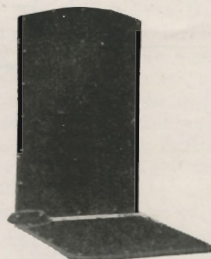
No. 322 Lamp, Price \$0.75  
 No. 321 Handle & Cords \$1.50  
 Complete \$2.00



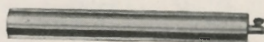
No. 311 Metal Treatment Handles  
 No. 312 Treatment Cords



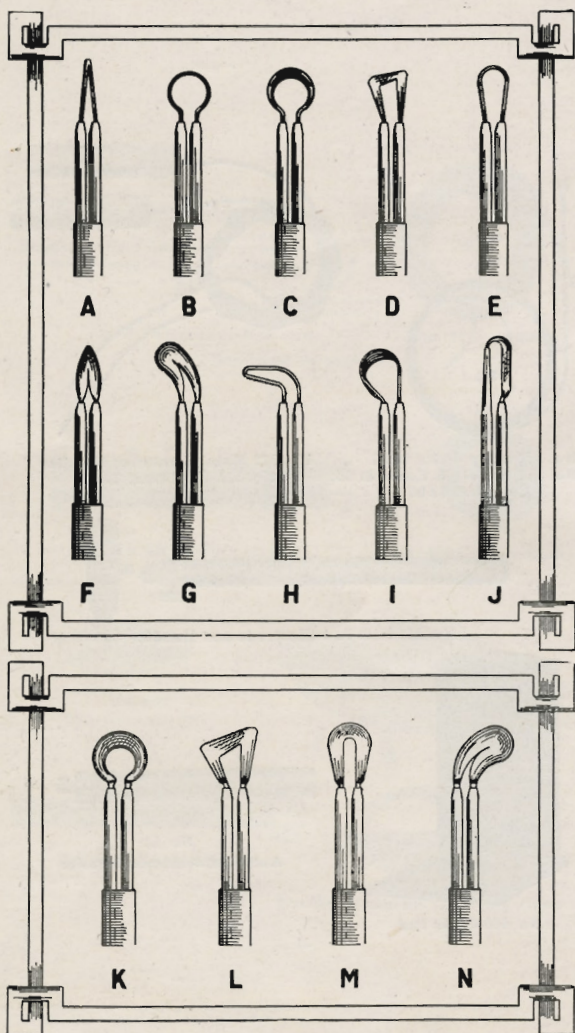
No. 316 Felt Pad Electrode and Handle



No. 410 Chair Pad



No. 52  
 Auto Condensation Handle



Cautery Knives \$1.25 each



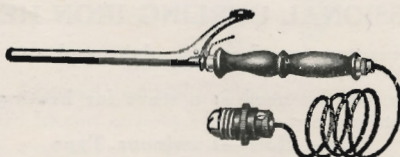
## ELECTRIC CURLING IRON

This Curling Iron has several features and advantages that are not obtained in other curling irons. The temperature is so regulated in the construction of the heating unit that it never becomes hot enough to burn the hair.

The heating element and the heating cord attached thereto are made to revolve, which saves the cord from wearing out and prevents it from knotting while in use. The shield is quickly removable in case it is not required.

The handle is made extra long so that it is impossible to burn the hand. Packed in an attractive hinged box.

No. E-127 Price of Curling Iron, with cord  
and plug (Code Word, Curlew) - -

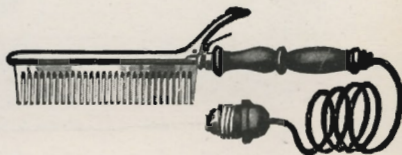


## CURLING IRON, HAIR DRYER AND WAVER ROD

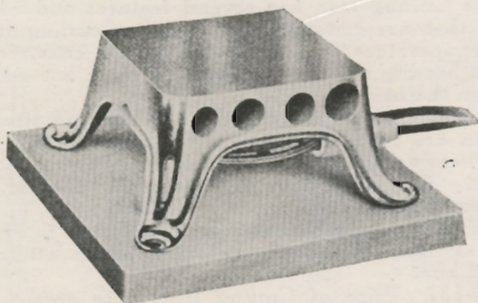
### "All Three in One"

To use the Curling Iron simply remove the comb. To use the Waver Rod remove the shield and comb. Makes beautiful, lasting waves or curls. The Heater and Cord revolve together so that the cord does not kink while in use. The Comb is aluminum. All other parts are beautifully nickel-plated. The handle is ebonized. Acts as a tonic for the hair and scalp—makes the hair luxuriant. Dries the hair quickly after shampooing. Saves time and labor—works perfectly.

No. E-128 Price of Curling Iron, Hair Dryer  
and Waver Rod, complete in cardboard case  
(Code Word, Curule) - - - -



## Model A



### PROFESSIONAL CURLING IRON HEATER

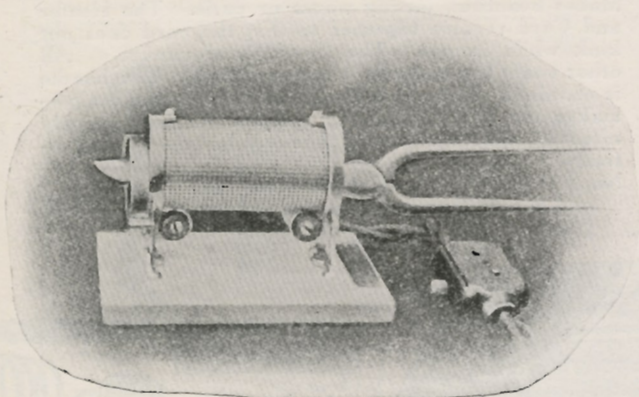
Will heat two number six plain and two Marcel irons.

Flat top may be used as a stove for heating water, creams, lotions, etc.

#### Single Hole—Luminous Type

Price of Model A Curling Iron Heater, four	
hole - - - - -	\$10.50
Price of Luminous Heater - - - - -	7.50
Price of Model B, two hole Heater - - -	9.00

Our Model A combines a Curler and Stove, the flat top being designed to heat water, creams, lotions, etc. It will heat two large Marcel and two medium or small irons at once. All heaters are guaranteed one year.

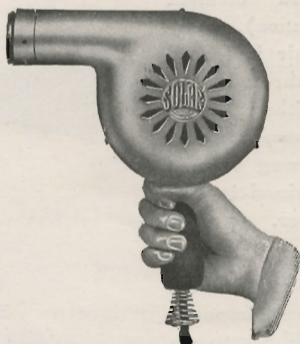


#### Luminous Type

# ELECTRIC DRYER

## Portable Type

Lightest  
and  
Most  
Powerful  
Machine  
ever  
Produced



Thousands  
now in  
use  
throughout  
the  
United  
States  
and  
Canada

### DESCRIPTION

Heavy stamped and polished aluminum case. Weight one pound fifteen ounces (less cord and plug). Temperature, one hundred and forty degrees.

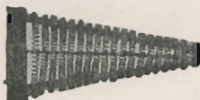
In the making of electrically heated dryers, three most essential features must be considered, namely: Weight, Volume and Temperature. A heavy dryer, although producing a strong blast of heated air, will tire the operator, while a light dryer with a feeble blast would do likewise, owing to the length of time necessary to obtain the desired result. In presenting The "SOLAR" Dryer consideration attention has been given to these details, and after years of experimenting, the Lightest and Most Powerful Dryer in existence has been perfected. Particular attention is called to the fact that all the air is evenly heated, there are no cold spots—no choking of air passage, these results being obtained by the use of a patented heat coil, description of which is shown on the reverse side hereof.

The "SOLAR" Dryer is a departure from the heavy, cumbersome, inefficient dryers now being sold, and will do the work in half the time. The greatest care has been given to the construction and materials used, a broad liberal guarantee being given with the positive assurance that with a little care, the machine will outlive its guarantee ten fold.



## "IT'S ALL IN THE HEATER"

Side view of the patented conical shaped element (weight one ounce), showing how the air is forced around and through the heated coil without being blocked in its passage; producing the strong volume of air not obtained in any other style dryer.



End view of element, showing how the patented winding makes it impossible for any cold air to escape, producing the high high temperature not obtained by any other style dryer.



### DESCRIPTION:

Heavy stamped and polished aluminum case. Weight—one pound, fifteen ounces (less cord and plug). Temperature—one hundred and forty degrees . . . . .

Price, portable type - - - - - \$20.00

# THE "SOLAR" ELECTRIC DRYER

## THE MOST PERFECT MACHINE EVER PRODUCED

A positive heat control with extremely powerful blast of hot or cold air.

Pyralin white enamel finish (five coats) will stand considerable use. May be cleansed with soap and water to restore original lustre.

Solid sheet brass case heavily nickel plated and polished.

Fully guaranteed for one year.

### Features:

Can be raised or lowered and adjusted to any position. Swivel top permits swinging in any direction. Tilting spout can be moved to any angle.

In combination with the above, the flexible leather tube permits the drying of hair without the aid of an operator. This labor saving feature makes The "SOLAR" Dryer pay for itself in a short time.

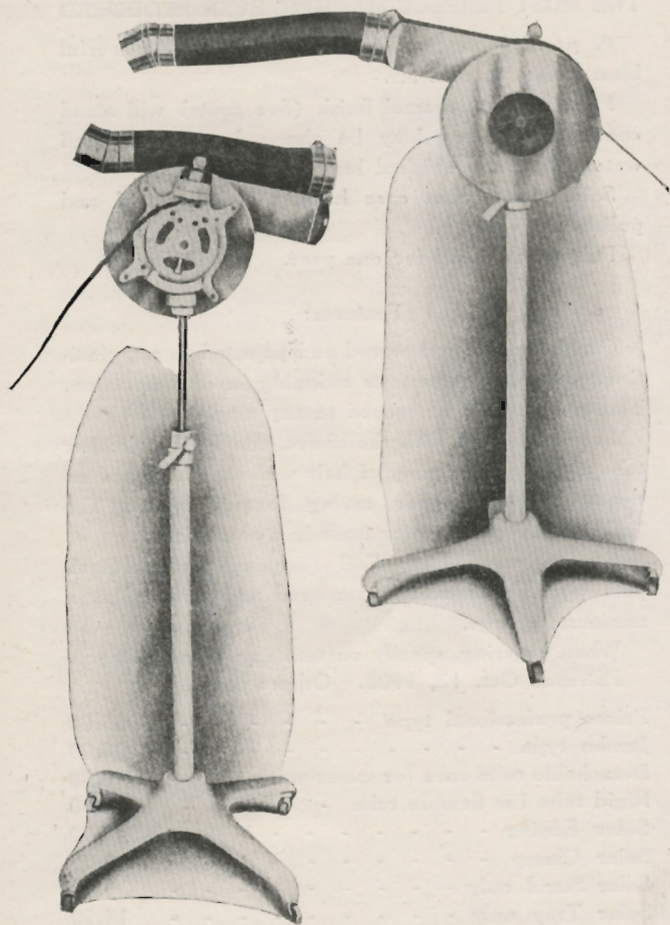
Our Patented Heat Coil (licensed under Marsh patents) may be readily removed and renewed at a minimum charge.

When ordering, specify current as well as voltage.

Patented Oct. 12, 1908. Others pending.

Prices professional type - - - - -	\$ 85.00
Jumbo type - - - - -	100.00
Detachable solid tube for water waving - -	6.00
Rigid tube for flexible tube - - - - -	1.00
Solar Edging - - - - -	\$ 1.50
Solar Clamp - - - - -	3.00
Solar Stand only - - - - -	5.50
Solar Tray only - - - - -	14.50
Solar Tray with Stand less edging (B) - -	18.50
Solar Tray with Stand and Edging (A) - -	20.00
Solar Tray with Clamp and Edging (C) - -	17.50
Solar Tray with less Edging (D) - - - -	16.00

Illustrations not binding as to detail in view of future improvements.



**FEATURES:** Can be raised or lowered and adjusted to any position. Swivel top permits swinging in any direction. Tilting spout can be moved to any angle.



# THE "SOLAR" TRAY AND EDGING

## Non Splash and Leak Proof

Tray is designed to conform to the neck. High sides and convex lips prevent splash and overflow. Low band where it engages neck, positively form fitting. Made of heavy copper, polished and nickel plated. Can not rust. Copper rivets are counter-sunk, preventing hair or dirt catching beneath. May be raised or lowered and adjusted to all positions.



Showing how easily edging may be applied or removed.

### Order as follows:

Style A stand type with edging.

Style B Stand type less edging.

Style C Basin or chair type with edging.

Style D Basin or chair type less edging.

Edging is made of soft white rubber, quickly removed or applied. Prevents water leaking down customer's neck, or splashing over body. Keeps the cold metal away from the neck, an objectionable feature of ordinary trays.

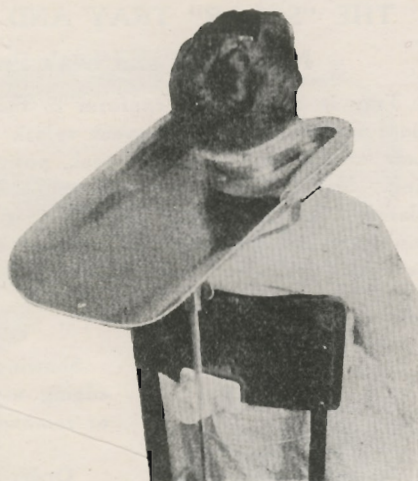
Clamp will fit chair or basin within marring the wood, or chipping the enamel. Will positively not work loose.

Stand weighs ten pounds and is easily handled. The wide, four legged spread will hold tray firmly in position without moving. Will not tip over.

Packed in individual cartons, facilitating shipping.

Weight (packed) with stand, 22 lbs.; with clamp, 11 lbs.

Showing  
edging  
closely  
fitted to  
the neck,  
preventing  
leak and  
splash.  
Also  
method of  
applying  
clamp to  
ordinary  
chair.



### VACUUM CLEANERS

Hamilton-Beach (motor driven brush)	-	56.00
Attachments - - - - -	-	12.50

### HEATING PADS

Universal - - - - -	-	12.50
Sun Ray - - - - -	-	11.00

### UNIVERSAL HEATING DEVICES

Itemized list on application.

### HAMILTON-BEACH PRODUCTS

Vibrators—Type D - - - - -	16.50
Vibrators—Type F - - - - -	18.50
Vibrators—Type A - - - - -	19.50
Vibrators—Type C - - - - -	28.50
Sponge Applicators - - - - -	.75
Brush Applicators - - - - -	1.00
Rectal Applicators - - - - -	1.50
All other Applicators - - - - -	.50

## EMCO DEVICES

	List
Solar Dryer (portable) - - - -	\$21.00
Solar Dryer (professional) 15 amps. - -	85.00
Solar Dryer, "Jumbo" (professional) 20 amps. - - - -	100.00
Detachable Solid Tube for Water Waving -	6.00
Rigid Sheet Metal Slide (for flexible tube)	1.00
Solar Tray with stand and edging A - -	20.00
Solar Tray with clamp and edging C - -	20.00
Solar Tray with stand, less edging B - -	18.50
Solar Tray with clamp, less edging D - -	16.00
Solar Tray only (less stand or clamp) - -	14.50
Solar Stand only - - - -	5.50
Solar Clamp only - - - -	3.00
Solar Edging only - - - -	1.50
Solar Curling Iron Heater, professional, 4 hole A - - - -	10.50
Solar Curling Iron Heater, professional, 2 hole, on stand B - -	9.00
Solar Curling Iron Heater, professional, 2 hole, wall type C - -	9.00
Solar "Luminous" Curling Iron Heater -	7.50
Whip Mix (mayonnaise attachment) - -	3.00
Universal Mayonnaise Mixer - - -	3.75
Self Attaching Heaters - - - -	5.75
Pilot Water Heaters, 3-quart - - - -	16.00
Pilot Water Heaters, 5-quart - - - -	17.50
7-inch (3-quart) Globes - - - -	3.00
8 inch (5-quart) Globes - - - -	3.50

## ELEMENTS

Water Heater, Curling Iron, etc. - - -	2.00
Solar (portable) - - - -	3.25
Solar (professional) - - - -	6.00

## CYCLONE DRINK MIXERS (H-B)

Number One—Nickel - - - -	22.50
Number One—Silver - - - -	26.50
Number Two—Nickel - - - -	29.50
Number Two—Silver - - - -	33.00



## SEWING MACHINE MOTORS

	List
Jack Rabbit (Soezy) - - - -	18.50
Special Bracket types (for each standard make) - - - -	19.25
Universal Gooseneck (fits any make) - -	19.25
Automatic (chain stitch) - - - -	21.00
Tailor type - - - -	28.50
Buffing and grinding attachments - -	1.50
Fan attachment - - - -	3.00
Cream Whipper attachment (see Whip-Mix and Universal Mixer).	
Foot Treadles - - - -	9.00
Solar Drink Mixers on application.	
Solar Agitators (heavy duty) - - -	2.50

## JEWELERS' LATHE MOTORS

Number Two - - - -	20.00
Number Three - - - -	27.50

## SHELTON VIBRATORS

Number 75 Gentry - - - -	
Number 85 Knickerbocker - - - -	27.50
Number 71 Special - - - -	32.50
Number 19 De Luxe - - - -	35.00
Number 1 Shelton (physicians) - - -	45.00

## MAJESTIC HEATERS

Number 4 - - - -	12.00
Number 5 - - - -	15.00
Number 6 - - - -	20.00
Number 7 - - - -	12.00
Number 8 - - - -	16.00
Number 11 - - - -	13.50

We manufacture a full line of single and multiple  
needle Electrolysis sets. Send for particulars.



## MANICURING LAMP

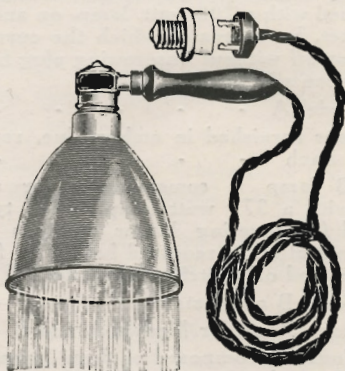
The stand and bracket of this Manicuring Lamp are made of brass, finished in polished nickel plate. The hood or reflector is made of polished aluminum. It can be operated from either the alternating or direct current, and is furnished complete with red lamp, cord and plug.

It is also fitted with the "On" and "Off" switch, the same as the radio bell.

No. E-126 Price of Manicuring Lamp complete with red lamp bulb, cord and plug

(Code Word, Manege) - - - - \$8.50

For extra lamp bulbs, see page —.



Therapeutic Lamps

## THERAPEUTIC LAMPS

Heat is the most powerful of all vital stimulants. All bodily activities are increased under its influence. It should be borne in mind, however, that for bodily applications there are two radically different kinds of heat—namely, convention heat, as exemplified in poultices, hot water bags and other solid, liquid or gaseous hot applications—and radiant heat, as exemplified in solar heat and its more powerful modern day substitute, electricity.

Convention heat, while soothing, can be only partly effective, because it has no power of penetration. It heats only the surface with which it comes in contact. But in the use of electric light the effect is very different. By their wonderful penetrating power its thermic rays not only heat the surface but penetrate fully two inches below the surface.

There is no time wasted in preparation, simply attach to any electric light socket. Do away with the heating of water for hot water bags or fussing around with poultices when quicker and better results can be obtained with this wonderful light.

The field for the use of this lamp is practically unlimited. It is successfully used for the following treatments: Stomach troubles, menstrual irregularity, inflammations, cramps, swollen joints, cold extremities, lumbago, neuritis, sciatica, mumps, croup, in fact, any place where it is possible to reach.

Model A, 8", is truly a portable, weighing only a few ounces. The reflector is made of aluminum, highly polished. It can be used either on 110 or 220 volts as required. Always specify voltage required. It is furnished with a 200 watt. lamp, on and off switch in the socket, by means of which the current can be turned on or off without unscrewing plug from socket. Has 6 ft. green silk parallel cord.

Price of Model A - - - - - \$9.00

Color screens furnished in amber blue, red and velvet. Each - - - - - 3.00

Model B lamp is somewhat larger and comes equipped with a 375 watt lamp. This type is generally used for covering larger surfaces and where greater penetration is required has a 8 ft. asbestos cord and on and off switch with socket.

Price of Model B complete - - - - - \$15.00

Price of Floor Stand for Models A and B - 6.00

Price of Model C, composed of three lamps on enameled stand, adjustable for a large number of uses, equipped with 200 watt lamps - \$45.00



**Terms**—We allow five per cent discount for cash from all prices in this catalogue when cash accompanies the order.

**Payments**—Remittance may be sent with order; or we will send C. O. D. if one-third of the amount accompanies order.

Goods sent by mail or parcel post are at your risk unless you order them insured and send sufficient money to cover such insurance.

**References**—Goods will be sent on open account if satisfactory references are furnished—preferably San Francisco or Oakland business houses.

**Shipments**—All shipments, express or freight, are f. o. b. San Francisco. Goods are sent by parcel post only when allowance is added for postage. For parcel post rates to your zone consult your postmaster. Express rates are about as low as parcel post.

**Guarantee**—All goods of our manufacture are guaranteed for one year from date of sale against defective material or workmanship, dry cells, lamps and all glass apparatus or parts are not included.

**Testing**—All apparatus are thoroughly tested before shipment and complete instructions are furnished for operating.

**Packing**—All goods are carefully packed and our responsibility ceases when delivered in good order to transportation company.

**Do Not** send claims for breakage to us, make it direct to the Express or Railroad Company.

When you find damage, call inspector of Express or Railroad Company and make your claim for damages "at once."

If outside case covering the goods is all right, but goods inside are damaged, make your claim for "Hidden Damage."

